

CLAIM AMENDMENTS

1 1. (currently amended) An apparatus Apparatus with
2 directable blades for conveying displacing air to a radiator
3 radiators of a motor vehicle ~~s and the like~~, comprising:

4 a fan ~~[[(10)]]~~ having a plurality of blades ~~[[(12)]]~~ each
5 radially mounted ~~by means of its own~~ a respective coupling device
6 ~~[[(31)]]~~ on a central body ~~[[(11)]]~~ and able to be rotationally
7 actuated about ~~[[its]]~~ a respective longitudinal axis of the blade
8 ~~by means of actuating means (41, 42, 43)~~ depending on ~~[[the]]~~ a
9 quantity of air required for correct cooling of ~~the fluid in said~~
10 radiator; and ~~[[,]]~~

11 ~~Characterized in that it comprises means~~
12 ~~(E0, 160, 260, 360, 460~~ an electromagnetic clutch for engaging/
13 disengaging ~~[[the]]~~ transmission of the rotational movement from
14 ~~the means (23, 21, 321a, 21, 421a, 21)~~ a source of rotational movement
15 ~~generating said movement to~~ ~~[[the]]~~ said fan ~~[[(10)]]~~.

2. (canceled)

3. (canceled)

1 4. (Currently amended) The apparatus Apparatus according
2 to claim 1 wherein Claim 2, ~~characterized in that~~ said electromagnetic

3 clutch consists of a fixed electromagnet ~~(61,361,461)~~, a rotor
4 ~~(21,321,421)~~ integral with the source of the devices ~~(23,321a)~~
5 ~~generating the rotational movement of the fan (10)~~, and an armature
6 ~~(62,362)~~ integral with an element ~~[(51)]~~ supporting the fan ~~[(10)]~~
7 and movable axially with respect to said support ~~[(51)]~~.

1 5. (Currently amended) The apparatus Apparatus according
2 to claim 2, ~~characterized in that 1 wherein~~ that said
3 electromagnetic clutch ~~(61,361,461)~~ is normally energized.

1 6. (currently amended) The apparatus Apparatus according to
2 claim 4, further comprising 2, ~~characterized in that~~ resilient means
3 ~~(164,364)~~ able to exert a pushing farce in an axial direction against
4 the armature ~~(62,362)~~ in order to keep it constantly coupled to the
5 rotor ~~(21,321)~~ are associated with said electromagnetic clutch ~~(61,~~
6 ~~361~~ .

1 7. (currently amended) The apparatus Apparatus according to
2 claim 4 wherein ~~Claim 2, characterized in that~~ said electromagnetic
3 clutch has ~~(361,461)~~ is associated with permanent magnets ~~(66,466)~~
4 able to keep the armature ~~(362,462)~~ constantly coupled to the rotor
5 ~~(321,421)~~.

1 8. (Currently amended) The apparatus Apparatus according to
2 claim 4 wherein ~~6 or 7,~~ characterized in that said electromagnetic
3 clutch ~~(361,461)~~ is normally not energized.

1 9. (Currently amended) The apparatus Apparatus according to
2 claim 4 wherein said element supporting said fan is a ~~Claim 1,~~
3 ~~characterized in that said support (51) of the fan (10) is mounted on~~
4 a support shaft ~~(21a,321a,421a)~~ with the arrangement of associated
5 bearings ~~[(52)]~~ in between.

1 10. (Currently amended) The apparatus Apparatus according to
2 ~~[[Claim]]~~ claim 9 wherein ~~[[,]]~~ characterized in that said support
3 shaft ~~(21a,321a,421a)~~ is fixed.

1 11. (Currently amended) The apparatus Apparatus according to
2 ~~[[Claim]]~~ claim 9, characterized in that said support shaft
3 ~~(21a,321a,421a)~~ is movable rotationally.

1 12. (Currently amended) The apparatus Apparatus according to
2 ~~[[Claim]]~~ claim 10 , characterized in that wherein the rotor receives
3 the rotational movement from suitable external transmission means
4 ~~[[(23)]]~~.

1 13. (Currently amended) The apparatus Apparatus according to
2 [[Claim]] claim 11 ~~, characterized in that wherein~~ the rotor receives
3 movement from the support shaft with which it is integral.

1 14. (Currently amended) The apparatus Apparatus according to
2 [[Claim]] claim 11 wherein ~~, characterized in that~~ the armature
3 [[462]] is integral with the movement transmission shaft ~~(421a)~~ and
4 the rotor [[421]] is integral with the fan [[10]].

15. (canceled)

1 16. (Currently amended) The apparatus Apparatus according to
2 [[Claim]] claim 1 ~~, characterized in that wherein~~ the fan [[10]] is
3 arranged after the engaging/disengaging means.

1 17. (Currently amended) The apparatus Apparatus according to
2 [[Claim]] claim 1 ~~, characterized in that wherein~~ the fan [[10]] is
3 arranged ahead of the engaging/disengaging means.

1 18. (new) An apparatus for displacing air to a radiator of a
2 motor vehicle, comprising:

3 a fan having a plurality of blades each radially mounted on a
4 respective longitudinal axis by a respective coupling device on a
5 central body;

6 an actuator acting upon said coupling devices for rotating said
7 blades about the respective longitudinal axes depending upon the
8 quantity of air required for cooling in said radiator;

9 a rotor driven by an engine of the motor vehicle;
10 an element supporting said fan and rotatable about an axis of rotation
11 of said rotor; and

12 a gripper device able to close around an armature rotationally
13 integral with said element for engaging/disengaging transmission of
14 rotational movement from said rotor to said element and said fan.

1 19. (new) The apparatus defined in claim 18 wherein said
2 armature projects radially from said element and said gripper device
3 has two jaws juxtaposed with opposite sides of said armature, one of
4 said jaws being fixed to said rotor, the other of said jaws being
5 mounted for translation in an axial direction on said element toward
6 and away from said armature by actuation of corresponding actuation
7 means.